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Sang-Woon Seo; Azimi-Sadjadi, M.R.; Bin Tian;

Image Processing, 1997. Proceedings., International Conference on , Volume: 3 , 26-29 Oct. 1997

Pages:260 - 263 vol.3

[Abstract] [PDF Full-Text (728 KB)] IEEE CNF

2 Blocking artifact reduction of DCT coded image sequences using a visually adaptive postprocessing

Derviaux, C.; Coudoux, F.-X.; Gazalet, M.G.; Corlay, P.;

Image Processing, 1996. Proceedings., International Conference on , Volume: 1 , 16-19 Sept. 1996

Pages:5 - 8 vol.2

[Abstract] [PDF Full-Text (772 KB)] IEEE CNF

3 A fractional chip wavelet zero tree codec (WZT) for video compression

Kolarov, K.; Lynch, W.; Arrighi, B.; Hoover, B.;

Data Compression Conference, 1999. Proceedings. DCC '99 , 29-31 March 1999

Pages:535

[Abstract] [PDF Full-Text (8 KB)] IEEE CNF

4 Reducing the computational complexity of a MAP post-processing algorithm for video sequences

Robertson, M.A.; Stevenson, R.L.;
Image Processing, 1998. ICIP 98. Proceedings. 1998 International Conference on , Volume: 1 , 4-7 Oct. 1998
Pages:372 - 376 vol.1

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5 Coding of advanced TV for BISDN using multiple subbands

Fleischer, P.E.; Chen, T.C.; Lei, S.M.;
Circuits and Systems, 1990., IEEE International Symposium on , 1-3 May 199
Pages:1314 - 1318 vol.2

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**Blocking artifact reduction of DCT coded image seq using a visually adaptive postprocessing**

Derviaux, C. Coudoux, F.-X. Gazelet, M.G. Corlay, P.

Dept. O.A.E., Valenciennes Univ., France;

This paper appears in: Image Processing, 1996. Proceedings., International Conference on

Meeting Date: 09/16/1996 - 09/19/1996

Publication Date: 16-19 Sept. 1996

Location: Lausanne Switzerland

On page(s): 5 - 8 vol.2

Volume: 1

Reference Cited: 4

Number of Pages: 3 vol. (xlviii+1029+1067+1073)

Inspec Accession Number: 5572273

Abstract:

The blocking effect is known to be the major degradation in block based video **compression** techniques. In this paper, we describe an adaptive postprocess algorithm for the reduction of blocking effect in video coded sequences. It is a visual model for the prediction of blockiness visibility. The postfiltering operation on a 3D adaptive **filter**. A space-variant spatial **filter** is first used to smooth the block boundaries where the blocking effect is highly visible. It is followed by a compensated nonlinear filtering in the temporal domain. Experimental results presented showing that the proposed algorithm can remove the blocking effect keeping image sharpness

Index Terms:

adaptive filters data compression discrete cosine transforms image sequences suppression motion compensation multidimensional digital filters nonlinear filters methods spatial filters time-domain analysis transform coding video coding 3D filter DCT coded image sequences adaptive postprocessing algorithm block based compression techniques block boundaries blockiness visibility blocking artifact re

blocking effect degradation image sharpness motion compensated nonlinear filter
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S3	25673	S2 sam evideo	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/06/17 13:17
S4	48	S2 same video	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/06/17 13:22
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